



# UNITED STATEDEPARTMENT OF COMMERCE Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/597,159

il

06/20/00

NAKAHARA

K

000004.00659

QM12/0829

BLANK ROME COMISKY & MCCAULEY LLP THE FARRAGUT BUILDING SUITE 1000 900 17TH STREET NW WASHINGTON DC 20006 DRUAN, T
ART UNIT PAPER NUMBER

3724

DATE MAILED:

08/29/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

ď		Application No.	Applicant(s)
Office Action Summary		09/597,159	
		Examiner	NAKAHARA, KATSUMI Art Unit
		Thomas J. Druan, Jr.	3724
The MAILING DATE of this communication appears on the cover sheet with the correspondence address			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status			
1)	Responsive to communication(s) filed on		
2a)□		s action is non-final.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Disposition of Claims			
4)🖂	Claim(s) <u>1-5</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdrawn from consideration.			
5)	Claim(s) is/are allowed.		
6)⊠	6)⊠ Claim(s) <u>1-5</u> is/are rejected.		
7)	7) Claim(s) is/are objected to.		
8)	Claim(s) are subject to restriction and/or	election requirement.	
Application Papers			
9) The specification is objected to by the Examiner.			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.			
12) The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)L	All b) Some * c) None of:	. hava haan maasiyad	
	<ol> <li>Certified copies of the priority documents</li> <li>Certified copies of the priority documents</li> </ol>		Alan Na
<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>			
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)			
S. Patent and Tr	ademark Office		<del></del>

Application/Control Number: 09/597,159 Page 2

Art Unit: 3724

#### **DETAILED ACTION**

## Specification

- 1. The incorporation of essential material in the specification by reference to a foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference. The amendment must be accompanied by an affidavit or declaration executed by the applicant, or a practitioner representing the applicant, stating that the amendatory material consists of the same material incorporated by reference in the referencing application. See *In re Hawkins*, 486 F.2d 569, 179 USPQ 157 (CCPA 1973); *In re Hawkins*, 486 F.2d 579, 179 USPQ 163 (CCPA 1973); and *In re Hawkins*, 486 F.2d 577, 179 USPQ 167 (CCPA 1973).
- 2. The disclosure is objected to because of the following informalities: there are no units attached to some of the variables for specific dimensions in the specification.

Appropriate correction is required.

3. The specification is replete with informalities too numerous to mention specifically. It appears to be a literal translation into English from a foreign document. It has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification. The following are examples noted by the examiner:

page 1, line 11 – "a life of a" should most likely be --the life of a--; page 3, lines 5-6 – "a great load is put due to the body" is unclear; Art Unit: 3724

page 5, line 11 – "a noise" should most likely be just --noise--;

page 9, line 21 – "the chips are generate are observed" is unclear.

### Claim Objections

4. Claim 1 is objected to because of the following informalities: D and  $\alpha$  lack units. Examiner will assume the dimensions to be in millimeters. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. There is no disclosure for a blade having 5 widths D with 5 different ranges for  $\alpha$ .
- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear how a single invention can be derived from the 5 different ranges of D and  $\alpha$  specified in claim 1. If the ranges are present to show possible ranges of

singular D or  $\alpha$  values, the ranges must be in the alternative. Further,  $\alpha$  has not been defined in the claim, making its physical significance indefinite.

Claim 3 refers to an "arc-like curved face." The use of "-like" is not proper, as it broadens the definition of the word "arc" indefinitely. A more concise description of the curved surface is required.

## Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

10. Claims 1-2 and 5 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by published Japanese patent application 04158997 (hereinafter JP '997).

JP '997 discloses the invention as claimed including an unset tooth 23, a left set tooth 25L, and a right set tooth 27R (fig. 5). Said teeth have a rake face 15 with a predetermined length A and a small diameter curl forming section 17 with radius B near the tip portion of the saw teeth (fig. 1). Pitches of the saw teeth are unequal with each other (fig. 2). The distance between the rake face and a line parallel to the rake face that passes through the bottom-right corner of the curl forming section 17 is C.

Regarding claim 5, when the length of rake face 15 is less than 2.0 mm, and 0.5 mm  $\leq$  B  $\leq$  3.0 mm, a relationship that C  $\leq$  B/2 is established (translated abstract).

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '997.

JP '997 discloses the invention substantially as claimed, including unequal pitches and a distance C between the rake face and a line parallel to the rake face that passes through the bottom-right corner of the curl forming section 17, wherein said distance C > B/2 (column 3, lines 45-46). JP '997 lacks the limitation that  $C \le 2B$ . The range disclosed in JP'997 envelops the claimed range, and there is no evidence to show superior results because of this narrower range. Examiner contends that without evidence to the contrary, it would have been obvious to one skilled in the art to find the narrower range (In re Raven, 156 USPQ 679).

#### Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Holley, Walquist, Grelck, Baumann, and Henning et al. are cited to show the curl characteristics of prior art saw teeth. Turner, Yoshida et al., Holston, Kobayashi et al., and Hellbergh are cited to show the teeth offsets for a variety of prior art saw blades. Neumeyer et al., Kullmann et al., and Korb et al. are cited to further show the state of the art.

Application/Control Number: 09/597,159

Art Unit: 3724

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas J. Druan, Jr. whose telephone number is 703-308-4200. The examiner can normally be reached on M-F (8:30-6:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 703-308-2187. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3597 for regular and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

tid /

August 22, 2001

Rinaldi I. Rada Supervisory Patent Examiner Group 3700

## Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

#### INFORMATION ON HOW TO EFFECT DRAWING CHANGES

#### 1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

## 2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson. MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes

## **Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.